

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

September 26, 2007

TO: Internal File

THRU: Pamela Grubaugh-Littig Permit Supervisor *pgl*

FROM: David Darby, Senior Environmental Scientist *DD*

RE: 2005, 1st Quarter Water Monitoring, Canyon Fuel Company (CFC), LLC, Dugout Mine, C/007/0039-WQ05-1, Task ID #2232

1. Was data submitted for all required sites?

Canyon Fuel Company is conducting mining operations in Dugout Canyon. Operations are also taking place at a fan portal in Pace Canyon and a refuse pile in the valley below Dugout Canyon. This report is based on data compiled in file

O:\0070039.dug\WaterQuality\datacheck2005.xls.

Table 7-4 identifies the ground water monitoring (frequency) plan for wells and springs. Table 7-4 also identifies the parameters that will be monitored. Appendix 7-6 of the MRP identifies the UPDES sites, and current status monitoring parameters, discharge limits and monitoring frequency. Table 7-5 identifies the surface water program and water quality parameters that will be monitored.

The Protocols set forth in Table 7-4 and 7-5 will be followed during years of normal precipitation as defined in the PHC. During non-normal (wet, 110% of normal or dry, 70% of normal) years, defined by the NRCS snow pack, March 1, selected surface and groundwater sites will be monitored weekly from April 1 through August 31.

Springs Springs in the operational and post-mining groundwater monitoring program include SC-65, SP-20, SC-14, SC-100, SC-116, 200, 203, 227, 259 260, and MD-1 (Gilson Seam).

YES [] NO [X] All springs were reported as no access because of snow.

Streams Surface Water sites DC-1, DC-2, DC-3, DC-4, DC-5, PC-1a, PC-2, RC-1 and Fan (a new site on Pace Creek) are monitored for flow and chemistry once each calendar quarter, except during wet or dry years.

YES [] NO [X] Data were reported for all monitoring sites.

PC-1a could not be accessed because of snow. Sites SS-1 and RC-1 reported no flow (no flow is data). Complete data were reported for the other sites.

Wells Wells GW-10-2, GW-11-2 and GW 24-1 will be monitored quarterly for water levels, no water quality samples will be taken.

YES [] NO [X] Water levels were measured in all wells.

Wells GW-10-2 and GW-11-2 reported the access was blocked because of snow.

UPDES UPDES permits have been issued for disturbed area and mine water discharges into Dugout (UTG 040020) and Pace Canyon (0025593) Creeks by the Utah Division of Water Quality, as indicated in Appendix 7-6. The permits identify the maximum discharge levels for specified constituents, allowed for the creeks. Mine water is currently pumped directly into the Dugout Creek. Disturbed runoff is directed to the sedimentation pond that can discharge to the Dugout Creek. Mine water will be pumped to Pace Creek out the Fan Portal. Disturbed area runoff from Pace Canyon will be directed to a catch pond, as it overflows it will flow to Pace Creek.

YES [X] NO []

2. Were all required parameters reported for each site?

Springs YES [X] NO [] See section 1 for comments.

Streams YES [X] NO [] See section 1 for comments.

Wells YES [X] NO [] Dates describing the attempts to access the sites were submitted.

UPDES YES [X] NO []

3. Were irregularities found in the data?

Springs YES [] NO [X] .

Streams YES ☐ NO ☒
Wells YES ☐ NO ☒
UPDES YES ☐ NO ☒

4. On what date does the MRP require a five-year resampling of baseline water data.

Resampling due date is July 2009.

5. Based on your review, what further actions, if any, do you recommend?

None.

Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements? ☐ Yes ☒ No

A copy of the data file will be e-mailed to the Mine Operator and DOGM Mine Inspector identifying any missing and irregular data.

6. Follow-up from last quarter, if necessary.

Did the Mine Operator submit all the missing and/or irregular data (datum)?

This report and the previous report were delayed to process mine permits.